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The Tech

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Tuesday, March 4, 2014

WEATHER, p. 2

TUE: 27°F | 19°F
Mostly cloudy

WED: 31°F | 24°F
Cloudy

THU: 32°F | 25°F
Mostly cloudy

MIT Sloan leads discussion on healthcare

ERIC HAO—THE TECH

At the MIT Sloan Bioinnovations Conference on February 28, hundreds gathered at the Boston Marriott Cambridge to listen to Alex Azar, President of Eli Lilly USA and afternoon keynote speaker for the event. He walked the audience through the healthcare industry from the point of view of a global biopharmaceutical leader, discussing why hard science is not easily translated to personal medicine.

February FNL released

New edition of Faculty Newsletter addresses Tidbit subpoena, Reif's response to open letter

By Stan Gill and Deborah Chen
EDITORS

The January/February Edition of the MIT Faculty Newsletter opens strongly with Prof. Hal Abelson PhD '73, Nathan Matias G, and Ethan Zuckerman's open letter to President L. Rafael Reif regarding Tidbit alongside Reif's response.

Tidbit is a program built by several MIT students, including Jeremy L. Rubin '16 to allow websites to borrow their vistors' computing power to online cryptocurrency like Bitcoin rather than use ads for revenue. The team presented a non-functional proof of concept at an international programming competition in November. Amidst accolades at the Hackathon for their innovative project, Rubin was served a subpoena by the State Attorney General of New Jersey demanding that they hand over the source code. The open letter expressed Abelson, Matias, Zuckerman, and others' belief that the subpoena should be considered "an affront to our academic freedom" and be treated as Institute business. The Tidbit team sought help from MIT's Office of the General Counsel (OGC) when they received the subpoena, but were referred to the Electronic Frontier Foundation (EFF) instead on the grounds that representation from the Institute would not be appropriate. The EFF is currently representing the team in the case.

Reif responded to the letter concisely, stating that while he supports the decision of the OGC to not be involved with the case, they are working with the EFF to make a statement in support of Tidbit. Furthermore, Reif pointed to a need for a "new legal resource for student innovators" and has tasked Provost Martin A. Schmidt PhD '88, Chancellor Cindy Barnhart PhD '88, and General Counsel Greg Morgan to draft a proposal.

The newsletter also fea-

FNL, Page 11

Putin intends to cripple Ukraine

Leader hopes to force new government to make concessions, shows no signs of yielding despite international pressure

By Steven Lee Myers
THE NEW YORK TIMES

MOSCOW — President Vladimir Putin has left little doubt he intends to cripple Ukraine's new government, forcing it to make concessions or face the de facto partition of areas populated predominantly by ethnic Russians, from the Crimea to Odessa to the industrial heartland in the east.

That strategy has been pursued aggressively by subterfuge, propaganda and bald military threat, taking aim as much at the United States and its allies in Europe as Ukraine itself. The pivotal question now for Kiev and Western capitals, is how boldly Putin continues to push his agenda, risking a more heated military and diplomatic conflict.

So far, the Kremlin has shown no sign of yielding to international pressure — but it also has not taken the most provocative step yet, openly ordering Russian troops to reinforce those already in Crimea and expand its incursion into southern or eastern Ukraine.

Asked on Sunday about President Barack Obama's suspension of preparations to attend the Group of 8 summit scheduled for June in Sochi — along with Canada, France and Britain — Putin's spokesman, Dmitry S. Peskov, replied cuttingly and dismissively. "It's not a minus for Russia," he said. "It will be a minus for the G-8."

Putin has yet to make public remarks on the crisis in Ukraine, leaving his ultimate goals uncertain and unpredictable. Yet with a strategy aimed at blunting the impact of a popular uprising that sought to push the country away from Russia and deepen ties with Europe, Putin has already left the fledgling government disorganized, discredited and forced to compromise on terms that would keep the country firmly within Russia's sphere of influence, especially regarding the Crimea peninsula.

The Kremlin's pledge to protect compatriots in Ukraine from suppression of a Western-minded majority mirrors Russia's role in other disputed territories of the former Soviet republics over the years, including Abkhazia and South Ossetia. Those two breakaway regions of Georgia survived in a diplomatic limbo after the collapse of the Soviet Union with overt and covert Kremlin pressure until war erupted in 2008 and Russia routed ill-prepared Georgian troops.

Russia brushed aside strong warnings from the United States and others at the time and recognized them as independent countries — and paid little price for it in the long run. Putin appears to be calculating again that Russia is too important for other countries to respond more forcefully, despite warnings like those by Secretary of State John Kerry on Sunday that the United States would consider an array of sanctions that could include freezing assets and travel of senior officials here.

Any escalation of Russia's military intervention, especially if it meets re-

Ukraine, Page 10

Students take a stand for rights

MELISSA RENÉE SCHUMACHER—THE TECH

One Night Stand for Student Rights was held in the Student Center this past Friday night to raise awareness of sexual assault, domestic violence, and other related issues at MIT, with the goal of making MIT a safer place. A poetry slam was held, and attendees painted a collective mural.

IN SHORT

Add Date is this Friday! Friday is also the last day to add classes or change classes to or from Sophomore Exploratory or Junior/Senior P/D/F. Be sure to fill out the online form and have it approved by 5 p.m.

The deadline for Institute Award Nominations is next Friday, March 14 at 5 p.m. Check out the award categories and nominate anyone you see fit at *http://awards.mit.edu*

The deadline for de Florez Fund for Humor Applications is March 16. Apply for a grant to fund your shenanigans! Students, faculty, and staff are all eligible to apply as long as the proposed project will reach a student audience.

Send news information and tips to *news@tech.mit.edu.*

NEWS BRIEFS

Theft reported at Burton Conner

An email sent Sunday from Burton Conner housemaster Anne E.C. McCants to the dorm's residents notified the recipients of the most recent in a series of thefts to occur in the dorm. According to the email, a male claiming to be an MIT security employee gained entrance to the Conner 5 Lounge and left with a PS4 gaming system after the student who confronted him went to notify the police.

McCants says that the thieves are most likely entering the building through the main entrance by following a resident through the card-access door and then proceeding straight to the Conner side elevator without walking past the front desk. The email instructed students to lock their valuables and avoid letting anyone into the building that they "do not know for certain."

The reported intrusion comes on the heels of a crime bulletin issued by the MIT Police earlier this month reporting three other thefts from Burton Conner between Feb. 11 and 12. The bulletin also mentioned four additional reports of thefts from MacGregor and New House occurring over IAP.

Professor Anne White receives teaching award

Professor Anne E. White, an assistant professor in the Department of Nuclear Science and Engineering (NSE) received the 2014 Junior Bose Award for Excellence in Teaching, the MIT News Office reported on February 26.

White's students consider her an "engaging, enthusiastic, and committed teacher and mentor," according to the press release, which says that the "award is given annually to an outstanding contributor to education."

"Professor White is one of several young NSE faculty whose energy and commitment to achieving excellence in the classroom are helping to transform our curriculum," NSE Department Head Richard K. Lester PhD '80 told MIT News. "In this remarkable group, Prof. White's dedication to her students is especially noteworthy."

White is the second NSE faculty member to earn this award in the past several years. Prof. Jacopo Buongiorno received the award in 2007.

—William Navarre

TWITCH TRIES ITS HAND AT MIT
QED ponders the success rate of a chaotic MIT student.
FUN, p. 8

GOOD FOOD, GREAT SERVICE
Myers + Chang is worth the trip by public transit. **ARTS, p. 6**

THE BIBLE HITS THE SCREEN
A modern take on Christianity's central figure. **ARTS, p. 5**

ST. VINCENT VISITS BOSTON
A review of the artist's theatrical concert at the House of Blues.
ARTS, p. 6

THE TECH'S OSCAR GUESSES
How did our staff's picks compare to the actual results?
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Fictional disaster, made to sound real, draws FCC fine

WASHINGTON — The familiar, piercing tone of an emergency alert jolted television viewers to attention. Then came the frightening images: the White House surrounded by terrorists, landmarks in flames in the nation's capital and military convoys patrolling the city. "THIS IS NOT A TEST," read the on-screen advisory.

It was, however, a hoax.

The warning, intended to summon viewers not to shelters but to movie screens, was a commercial for "Olympus Has Fallen," an action thriller released last March to middling reviews but decent box-office results. And the Federal Communications Commission was not amused.

On Monday, the commission leveled fines totaling $1.9 million on three of the nation's biggest media companies — Comcast, Viacom and Disney — for "willfully and repeatedly" violating federal law by carrying the commercial.

—Edward Wyatt, The New York Times

Deadly suicide attack on court rattles Pakistan's capital

ISLAMABAD — In a rare strike in the heart of Pakistan's capital, Islamabad, militants killed at least 11 people at the district court complex on Monday, shaking the government just as prospects for talks with the Taliban seemed to be improving.

An obscure militant cell, calling itself Ahrar-ul-Hind and thought to be a splinter group from the Pakistani Taliban, claimed responsibility for the attack, just a day after the Pakistani government announced that it would halt airstrikes against Taliban militants who had declared a cease-fire. But the group gave no motive for the attack.

A senior judge, Rafaqat Ahmed Awan, was among those killed in the assault, carried out by gunmen with explosive vests who also wounded at least 25 people and set off a chaotic mass rush from the court complex and a busy market nearby, police officials said.

Afterward, Prime Minister Nawaz Sharif held an emergency meeting with the army chief, Gen. Raheel Sharif, and the head of the Inter-Services Intelligence directorate, Lt. Gen. Zahir ul-Islam. No details of the meeting were made public, and it was unclear what effect the attack might have on often-derailed efforts to open negotiations with the Pakistani Taliban.

Shahidullah Shahid, a spokesman for the Pakistani Taliban, denied any role in the assault on the court complex.

—Salman Masood, The New York Times

Court to consider Arkansas inmate's right to grow a beard

WASHINGTON — The Supreme Court on Monday agreed to decide whether prison officials in Arkansas may prohibit inmates from growing beards in accordance with their religious beliefs.The policy was challenged by Gregory H. Holt, who is serving a life sentence for burglary and domestic battery. Holt said his Muslim faith required him to grow a beard.

The state's policy allows trimmed mustaches, along with quarter-inch beards for those with dermatologic problems. Prison officials said the ban on other facial hair was needed to promote "health and hygiene," to minimize "opportunities for disguise" and to help prevent the concealment of contraband.

Holt sued under the Religious Land Use and Institutionalized Persons Act, a federal law that requires prison officials to show that policies that burden religious practices advance a compelling penological interest and use the least restrictive means to do so.

The 8th Circuit U.S. Court of Appeals, in St. Louis, ruled in June that the justifications offered by the officials satisfied that standard.

—Adam Liptak, The New York Times

Libyan rioters charge parliament building

By David D. Kirkpatrick
THE NEW YORK TIMES

CAIRO — Dozens of armed rioters stormed into the Libyan Parliament in Tripoli on Sunday, setting fire to the grounds, looting furniture and wounding a prominent lawmaker in a spasm of anger at the clotted and chaotic transition after the ouster of Moammar Gadhafi.

Less than two weeks after a vote to elect an assembly charged with writing a new constitution, the bedlam at Parliament dampened hopes of renewed momentum for the transition, or even of a break from the violence. Security guards outside the building encouraged the rioters, witnesses said, and looters running amok suspended the symbolic white chair of the parliamentary leader from a lamppost. Later, they set the chair on fire.

In Benghazi, Libya, at least three people were killed by gunshots, according to news reports, adding to an accelerating pattern of assassinations of former Gadhafi security officers and foreigners. Together, the events appeared to suggest that the newly elected constitutional assembly may face a race to finish its work before the country comes apart at the seams; it is already dogged by doubts about a turnout of less than 15 percent of the electorate and incomplete elections — disrupted by violence — that left 13 of 60 seats unfilled.

In Tripoli, the capital, the riot was kindled by impatience with the 3-year-old transition.

Libya's transitional Parliament had once pledged to disband by Feb. 7, 2014, but it expected the drafting of the constitution to have been completed by then. Now lawmakers are heatedly debating plans and schedules for some new system of early elections that might replace the legislature and government while the constitution is finished.

But outside the parliament building, continuous protests have been demanding the immediate dissolution of the chamber, even without a ready replacement.

By Saturday, protesters set up a tent blocking the entrance. In response, witnesses said, gunmen who appeared to be supporting the Parliament — possibly from rival militias — attacked the small sit-in, reportedly arresting or kidnapping activists. Some witnesses also reported gunfire.

When two protesters were returned unharmed about 5:30 p.m. Sunday, an angry crowd of about 75 was waiting, said Rawad Radwan, 23, a blogger who was there and filmed some of the events. As dusk settled, some fired guns in celebration, the crowd grew to a few hundred, and some of them started running for the Parliament, he said.

Witnesses said the Parliament's security guards seemed to cheer on the protesters. "There were security guards, but they did not do anything," Radwan said. "I heard one say, 'Just go in — we are with you guys,'" he continued, suggesting that the Parliament "is not protected by the right people."

The only resistance came from protesters intent on remaining peaceful, two witnesses said. "I saw people breaking into cars and looting stuff while other protesters were trying to prevent them from doing this, but it was really hard to stand against those thieves," Radwan said.

MITx raises big questions about how information is used

By Natasha Singer
THE NEW YORK TIMES

CAMBRIDGE, Mass. — With the success of its free open online course system, called MITx, the Massachusetts Institute of Technology finds itself sitting on a wealth of student data that researchers might use to compare the efficacy of virtual teaching methods, and perhaps advance the field of Web-based instruction.

Since its inception several years ago, for instance, MITx has attracted more than 760,000 unique registered users from about 190 countries, university officials said. Those users have generated 700 million interactions with the school's learning system and have contributed around 423,000 forum entries, many of them personal.

As researchers contemplate mining the students' details, however, the university is grappling with ethical issues raised by the collection and analysis of these huge data sets, known familiarly as Big Data, said L. Rafael Reif, president of MIT.

"How do we set the boundaries, and balance the competing interests?" Reif asked in a public talk Monday morning. "If you believe in the potential of digital learning, you have to care about the larger question: How can we harness this flood of data to generate positive change — without destroying the very idea of privacy? Parallel questions hover over our work in field after field."

As the opening speaker at a workshop titled Big Data Privacy, sponsored by MIT and the White House, Reif framed some of the big questions that have arisen from the increasing public and private sector use of powerful large-scale data-mining techniques.

While proponents view such big data analytics as promising tools for discovering useful insights in medicine, education, marketing and many other fields, consumer advocates warn that without explicit federal rules or policies overseeing their use, computer-generated algorithms could potentially be used to identify people who would prefer to remain anonymous, or to discriminate.

They could be used, for example, to offer some consumers perks while others are charged higher prices or interest rates.

One goal of the project, said John Podesta, the counselor to the president who is leading a Big Data privacy review, is to determine how the public and private sectors might maximize the flow of information necessary for innovation while minimizing the potential privacy risks to individuals.

"Have we fully considered the myriad ways in which this data revolution might create social value?" he asked.

WEATHER

Winter clings on before arrival of spring

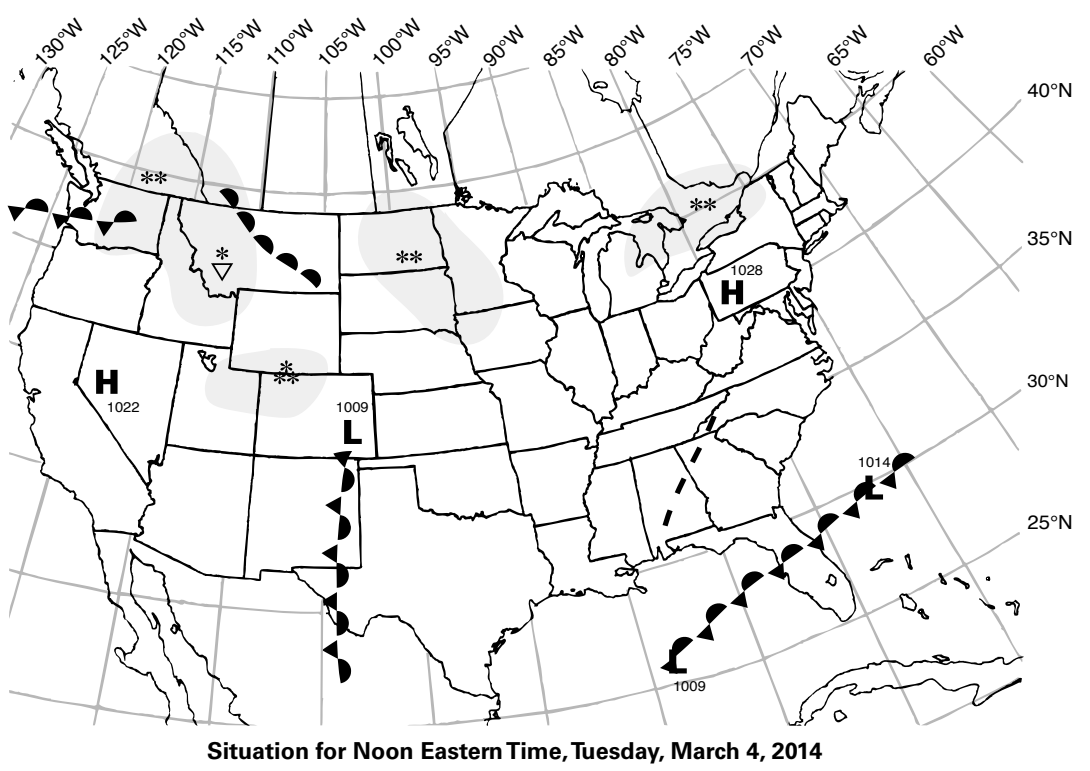
By Ray Hua Wu

Although this winter featured no particularly notable blizzard in Boston like last year's did, it does care very much to keep it cold for as long as it can. Highs will remain below freezing for much of this week, although it is now less than a month before this becomes unusual.

For those still wishing for more snow, there is still a small chance of snow tomorrow, although amounts will likely be minimal. It is now March, and the rise of temperature has now commenced.

Extended Forecast

Today: Mostly cloudy, with a warming evening. Winds West at 10 mph. High 27°F (-3°C).
Tonight: Cloudy. Winds Northeast at 5 mph. Low 23°F (-5°C).
Tomorrow: Overcast with a chance of snow. Winds Southwest at 10-15 mph. High 31°F (-1°C).
Thursday: Mostly cloudy. High 32°F (0°C).
Friday: Mostly cloudy. High 40°F (4°C).



Situation for Noon Eastern Time, Tuesday, March 4, 2014

Mutation found that kills off gene responsible for diabetes

By Gina Kolata
THE NEW YORK TIMES

A new study based on genetic testing of 150,000 people has found a rare mutation that protects even fat people from getting Type 2 diabetes. The effect is so pronounced — the mutation reduces risk by two-thirds — that it provides a promising new target for developing a drug to mimic the mutation's effect.

The mutation destroys a gene used by pancreas cells where insulin is made. Those with the mutation seem to make slightly more insulin and have slightly lower blood glucose levels for their entire lives.

Already Pfizer, which helped finance the study, and Amgen, which owns a company whose data played a key role in the research, are starting programs aimed at developing drugs that act like the mutation, the companies said.

But Timothy Rolph, a Pfizer vice president, cautioned it can take 10 to 20 years to get a drug to market after discovering something new about human genetics and disease.

The study, published Sunday in Nature Genetics, involved a mutation so rare that finding it was only recently possible, with massive data from large numbers of people, researchers said.

"The study is a tour de force and the authors are the top people in the field," said Dr. Samuel Klein, director of the center for human nutrition at Washington University School of Medicine, who was not involved in the study.

This is the first time in diabetes research that a mutation that destroys a gene has proved beneficial, noted Louis Philipson, director of the Kovler Diabetes Center at the University of Chicago. For drug development, he said, "that is very powerful."

For scientists, the result was a surprise because the same mutation that protects people from diabetes, by destroying one copy of the gene, known as ZnT8, has the opposite effect in some strains of mice. Destroying that gene actually causes diabetes in the animals.

The work began when a group of geneticists from academic institutions and Pfizer tried to find gene mutations that prevent diabetes, rather than searching for the cause.

North Korean officials expel Australian evangelist

By Choe Sang-hun
THE NEW YORK TIMES

SEOUL, South Korea — North Korea on Monday said it had decided to expel an Australian Christian missionary it arrested last month after he apologized for violating North Korean laws.

The North's official Korean Central News Agency said that the missionary, John Short, 75, had asked for leniency. He was arrested on Feb. 18 after secretly distributing Christian materials while visiting a Buddhist temple in Pyongyang, the agency said, and did the same in the Pyongyang subway during a visit in August 2012.

"Our related agencies have decided to expel him, given the generosity of the laws of our republic and considering his advanced age," the news agency said.

In another development on Monday, North Korea fired two short-range projectiles off its east coast, its second missile test in five days, prompting South Korea to warn against rising tensions.

Two missiles blasted off from the Gitdaeryeong launching site near the southeastern coast of North Korea around 6:20 a.m. Monday and flew 310 miles to the northeast before landing in international waters between the Korean Peninsula and Japan, said a Defense Ministry spokesman from South Korea, speaking on the condition of anonymity under ministry policy.

North Korea launched four short-range missiles in the same direction from the same site Thursday.

Those missiles flew about 124 miles, ministry officials said.

Climbing Mt. Everest? Nepal says bring back garbage

NEW DELHI — Hoping to clean a trash-strewn pathway to the world's highest peak, Nepal's tourism authority declared Monday that those climbing Mount Everest must return from the trip with an extra 18 pounds of garbage.

The rule is the government's first concerted effort to eliminate an estimated 50 tons of trash that has been left on Mount Everest by climbers over the past six decades. The waste includes empty oxygen bottles, torn tents, discarded food containers and the bodies of climbers who died on the mountain.

Nepal's government hopes the new rule will result in the collection of nearly 8 tons of waste this year alone.

Mountaineering associations and former climbers have become increasingly concerned about the growing refuse on Mount Everest that does not degrade because of the frigid temperature. In 2010, a special team of climbers carried more than 2 tons of trash down from elevations exceeding 24,000 feet. And last year, concerned climbers collectively carried down 4 tons of trash.

—Gardiner Harris, The New York Times

Sale of a da Vinci painting for more than $75 million is revealed

LONDON — A Leonardo da Vinci painting discovered by a dealer at a U.S. estate sale was sold last year in a private transaction for more than $75 million.

The painting, Leonardo's oil-on-panel "Salvator Mundi," showing Christ half-length with a crystal orb in his left hand, had been owned by a consortium that included New York art traders Alexander Parish and Robert Simon.

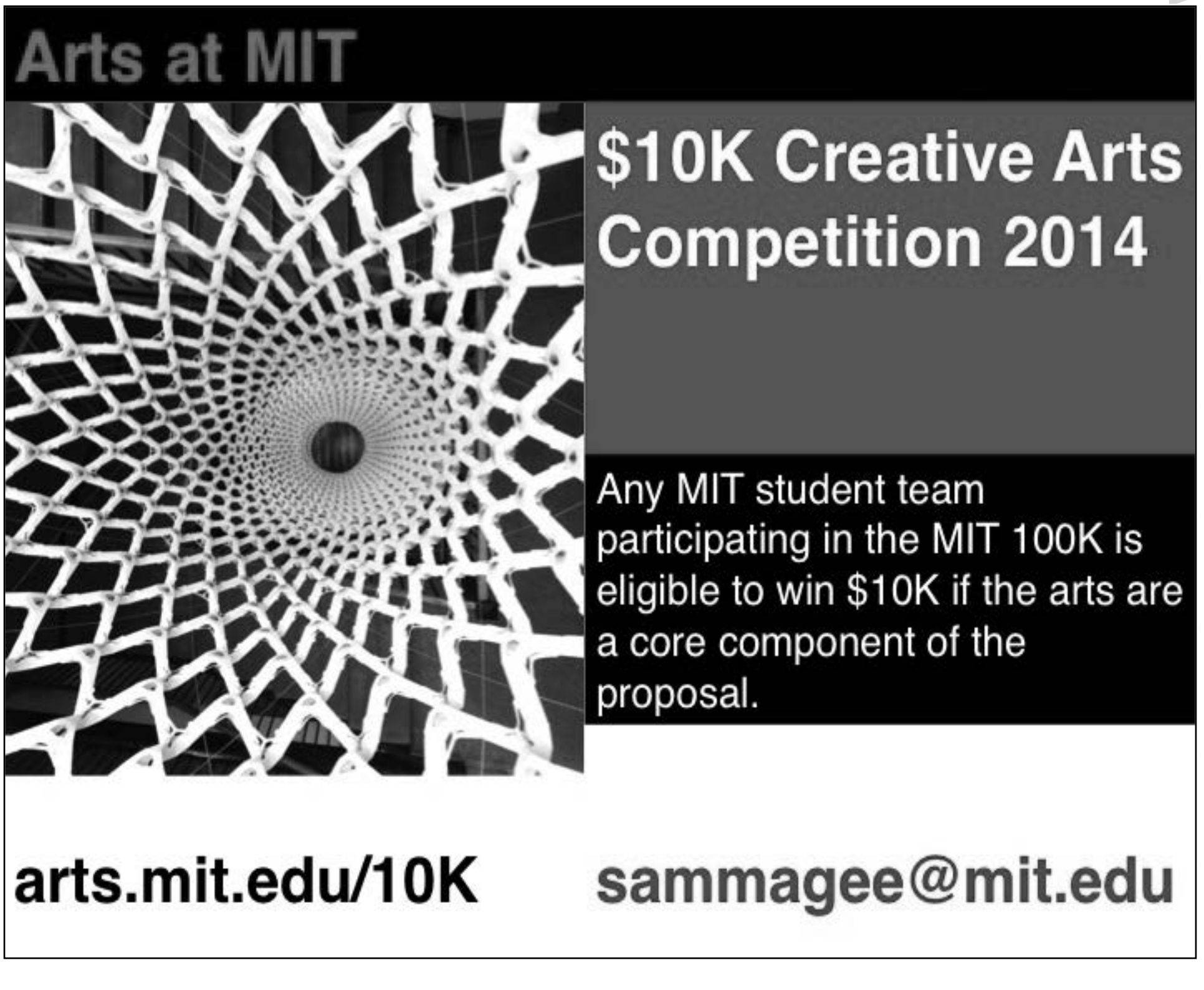
The heavily restored painting, dating from about 1500, was bought by an unidentified collector for between $75 million and $80 million in May in a private sale brokered by Sotheby's. The details of the purchase have remained locked in confidentiality clauses until they were revealed this week by trade insiders, such as the London dealer Anthony Crichton-Stuart.

"It's a trophy painting by a highly important artist," Crichton-Stuart said. "You have to balance its compromised condition against the fact that it is by one of the most magical and significant names in the entire canon of Western art, and in that sense, it feels like a fair price."

The 26-inch-high "Salvator Mundi" had been acquired in the mid-2000s by Parish for an undisclosed sum at an estate sale. Since 1900, the panel, which had been much overpainted, was cataloged as a copy after Boltraffio, an artist who worked in Leonardo's studio.

Subsequent cleaning and research by Simon and others revealed the painting to be an original Leonardo formerly owned by King Charles I of England. Despite the gaps in its provenance, most scholars now accept the work as an autographed oil by the artist.

—Scott Reyburn, The New York Times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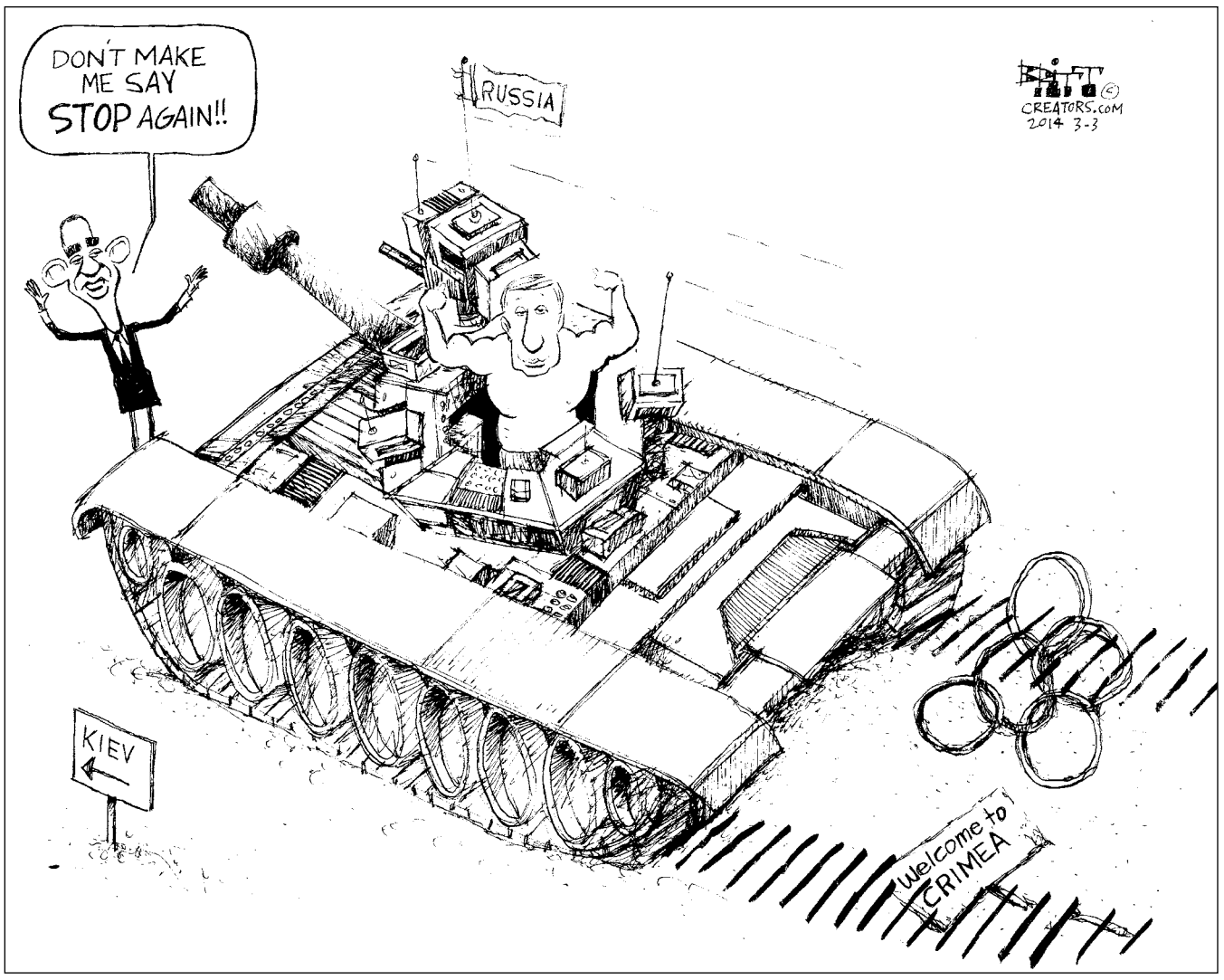
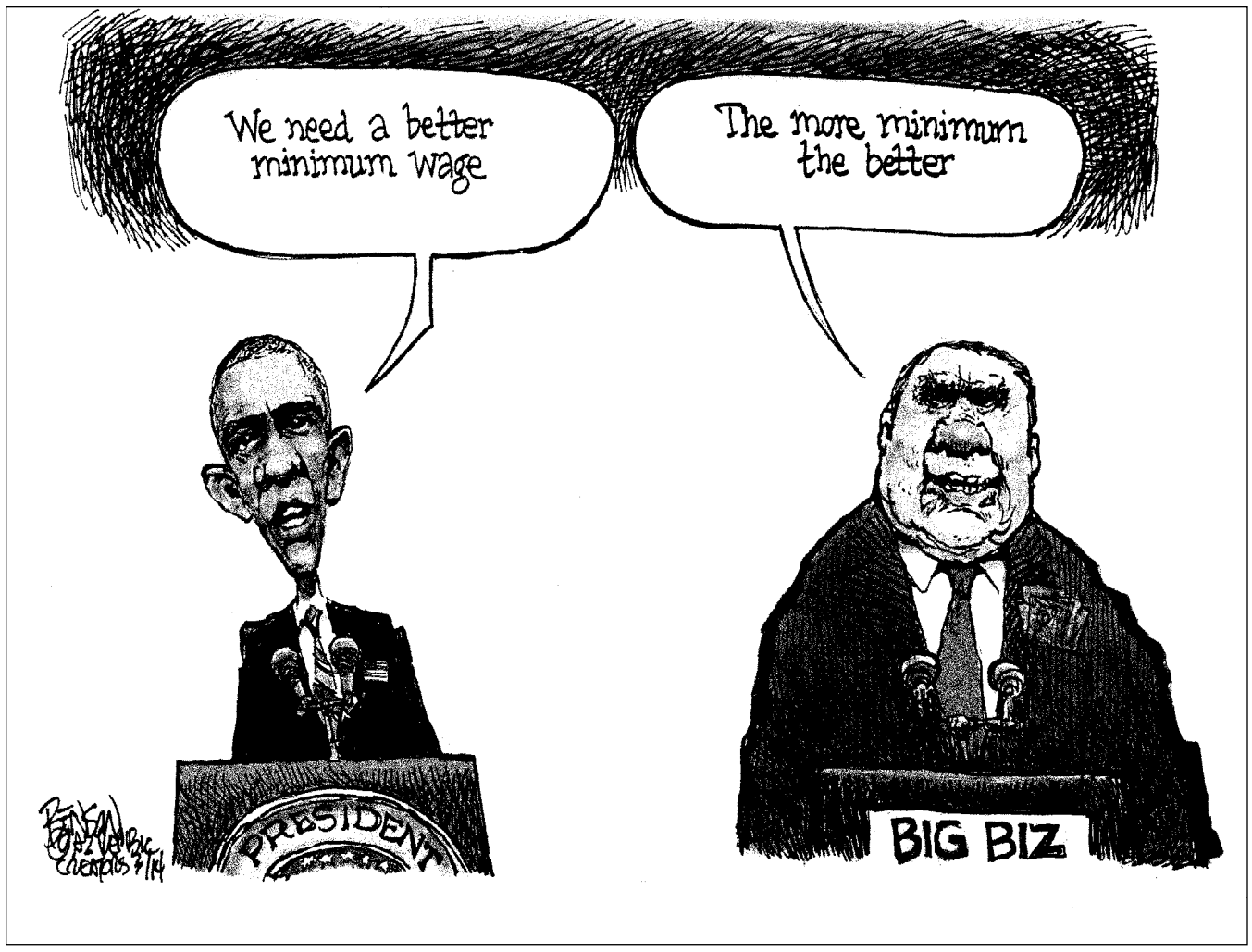




CORRECTIONS

In an article about the MIT men's volleyball team in the Friday, Feb. 28 issue of *The Tech*, the headline incorrectly implied MIT had an upcoming match with Juniata College. New Paltz, MIT's opponents in the match covered by the article, were in fact the ones scheduled to face Juniata.

OPINION POLICY

Editorials are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Annia Pan, Editor in Chief Austin Hess, Managing Editor Judy Hsiang, and Opinion Editor Jacob London.

Dissents are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

Letters to the editor, **columns**, and **editorial cartoons** are written by individuals and represent the opinion of the author, not necessarily that of the newspaper. Electronic submissions are encouraged and should be sent to *letters@tech.mit.edu*. Hard copy submissions should be addressed to *The Tech*, P.O. Box 397029, Cambridge, Mass. 02139-7029, or sent by interdepartmental mail to Room W20-483. All submissions are due by 4:30 p.m. two days before the date of publication.

Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority. Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech*'s Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

Guest columns are opinion articles submitted by members of the MIT or local community.

TO REACH US

The Tech's telephone number is (617) 253-1541. Email is the easiest way to reach any member of our staff. If you are unsure whom to contact, send mail to *general@tech.mit.edu*, and it will be directed to the appropriate person. You can reach the editor in chief by emailing *eic@tech.mit.edu*. Please send press releases, requests for coverage, and information about errors that call for correction to *news@tech.mit.edu*. Letters to the editor should be sent to *letters@tech.mit.edu*. *The Tech* can be found on the World Wide Web at *http://tech.mit.edu*.

EVENTS MAR. 4 – MAR. 10

TUESDAY

(11:30 a.m. – 1:00 p.m.) MIT Center for Transportation & Logistics Global Leadership Lecture Series: John Wiehoff, CEO of C.H. Robinson, lunch served at 11:30, lecture begins at noon — E51-315

WEDNESDAY

(11:00 a.m. – 12:30 p.m.) MIT Police Laptop Tagging and Registration, $10 per item, cash or MIT cost object only, sponsored by IS&T Computing Help Desk — Lobby 10

(3:00 p.m. – 4:30 p.m.) Basics of Grant Writing, with speaker Sonal Jhaveri — 46-3002

THURSDAY

(4:30 p.m. – 6:30 p.m.) Starr Forum: Center for International Studies shows *The Network*, with speakers Eva Orner and Fotini Christa — 66-110

(4:30 p.m. – 7:00 p.m.) Memorial service for President Charles M. Vest, sponsored by the Information Center — W16 (Kresge)

FRIDAY

(12:00 p.m. – 12:30 p.m.) In-Gallery Chat with Peter Dourmashkin about "Sonia Almeida: Forward/Play/Pause" — E15 (List Visual Arts Center Galleries)

(12:00 p.m. – 1:00 p.m.) Open mic in the Lewis Music Library, with a new piano — 14E-109

SATURDAY

(4:00 p.m. – 6:00 p.m.) LSC shows *Frozen, free admission, tickets available in Lobby 16* — 26-100

(8:00 p.m. – 10:00 p.m.) Bulgarian March Celebrations with music, food, and games, sponsored by Bulgarian Club at MIT and GSC Funding Board — NW30

SUNDAY

(3:00 p.m. – 6:00 p.m.) Israeli Folkdance Festival of Boston, $5 student tickets, $15 public, sponsored by Campus Activities Complex and Israeli Folkdance Festival of Boston — W16-109

(6:00 p.m. – 9:00 p.m.) A Pakistani Cultural Night: Rawaj, $8 for students, $15 public, sponsored by PaksMIT — 50-140 (Walker Memorial)

MONDAY

(1:00 p.m. – 2:00 p.m.) Practice Makes Perfect: Peer Mock Interviews, sponsored by MIT GECD — 1-246

Send your campus events to *events@tech.mit.edu*.

MOVIE REVIEW

Story of Christ

Movie prioritizes contemplation above entertainment

By Priya Kikani

★★★☆☆

Son of God

Directed by Christopher Spencer

Starring Diogo Morgado, Amber Rose Revah, Sebastian Knapp, Roma Downey

Rated PG-13

Now Playing

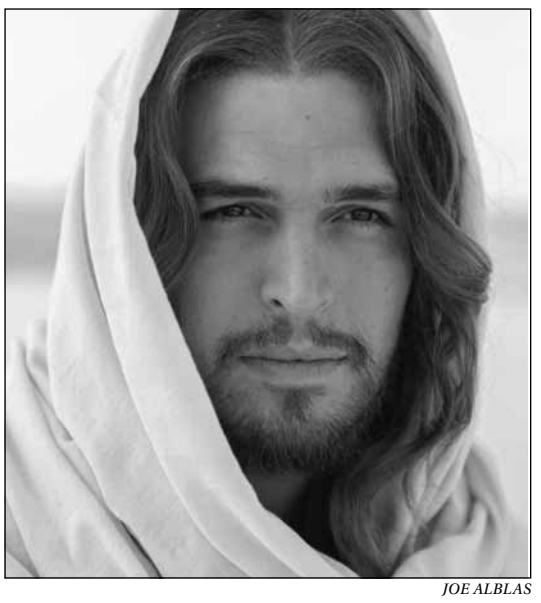
Perhaps the best thing that can be said about the recently debuted film *Son of God* is that it's earnest. The actor portraying Jesus, Diogo Morgado, came off as a bit too heavy-handed, but still undoubtedly genuine. This depiction of the life of Jesus Christ feeds the viewers a highlight reel of miracles, from Christ walking on water to the resurrection of Lazarus without much storyline in between.

But I attended the screening wondering more than simply whether the movie was good: Can the meaning of religion be relayed through cinema? Are houses of worship, books, and quiet moments the best vehicles to relay the tenets of religion, or can we learn the messages of God while munching popcorn in front of the big screen? Do the heightened colors and enormous characters in movies help or hinder the sermon?

By courtesy of the medium, *Son of God* does something remarkably valuable — it allows Jesus to be embedded in messy human history, making his struggle real. Observing the political machinations of the Jewish power hierarchy and the Roman conquerors was my favorite part of the film. Additionally, while the scenery was an artistic portrayal, it was fascinating to see the beaches of the Mediterranean and the temples of Jerusalem forming the backdrop to the founding of a new religion — a visualization which books cannot duplicate. A swelling musical score functioned as an unseen shepherd for the watcher's emotions, firmly marking moments of sweet hope and subduing moments of sadness with graceful instrumentation.

There is a sort of forced community inherent in the structure of the cinema which lends itself surprisingly well to religious pursuit. You have to sit very close to random people. And with Christ's classic imperative to "Love thy neighbors" ringing throughout the room, you are offered the opportunity to see strangers as fellow humans, fellow travelers on a road to at least a metaphorical Holy Land.

So *The Son of God* succeeds in its enthusiasm, though is occasionally bereft of depth, as Christ's story is reduced to a rapid series of miracles rather than a full, dynamic life. Less than a century ago, this story could only have been told with books and spoken stories. And while the story must adapt slightly to the media, the meaning — that love, charity, and faith can overcome all obstacles — remains the same.



JOE ALBLAS

Diogo Morgado stars as Jesus in the new biblical drama *Son of God.*

MIT Blood Drive
Sponsored by ARCTAN

Give Life ...
Give Blood.

Tue. 3/4, 8am - 1pm
Wed. 3/5, 1pm - 6pm
Thu. 3/6, 1pm - 6pm
Fri. 3/7, 1pm - 6pm

La Sala,
Student Center

For more information or to make an appointment, visit:
http://web.mit.edu/blood-drive/www/

It is MIT policy to allow employees time off with pay to donate blood at the drives that are sponsored on campus.

Blood Drives are sponsored by ARCTAN, MIT's American Red Cross Team and Network.

American Red Cross

Do you have a question for President Reif?

Join *The Tech*'s news department!
join@tech.mit.edu

ARTS ARTS ARTS

The Oscars

The Tech's Predictions: Did we get it right?

Best Picture
- Gravity ♟♟♟♟
- Her ♟
- **12 Years a Slave** ♟♟♟♟

Best Director
- David O. Russell ♟♟
  American Hustle
- **Alfonso Cuarón** ♟♟♟♟♟
  Gravity
- Steve McQueen ♟
  12 Years a Slave
- Martin Scorsese ♟
  The Wolf of Wall St.

Best Actor
- Bruce Dern ♟
  Nebraska
- **Matthew McConaughey** ♟♟
  Dallas Buyers Club
- Chiwetel Ejiofor ♟♟♟
  12 Years a Slave
- Leonardo DiCaprio ♟♟♟
  The Wolf of Wall St.

Best Actress
- Amy Adams ♟
  American Hustle
- **Cate Blanchett** ♟♟♟♟♟
  Blue Jasmine
- Sandra Bullock ♟
  Gravity
- Meryl Streep ♟♟
  August: Osage County

♟ = A VOTE BY AN ARTS STAFFER

INFOGRAPHIC BY ANTHONY YU

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This **CSAIL SEMINAR SERIES**, organized in cooperation with the Siri team at Apple, invites leading researchers in HLT to give lectures that introduce the fundamentals of spoken language systems, assess the current state of the art, outline challenges, and speculate on how they can be met. Lectures occur 2-3 times per semester and should be accessible to undergraduates with some technical background.

Human Language Technology

DISTINGUISHED LECTURE SERIES

Spoken Term Detection — A Loss for Words

WEDNESDAY,
MARCH 5TH, 2014

Refreshments at 3:45 PM
4:00 to 5:00 PM

Building 32-G449, 32 Vassar Street, Cambridge, Massachusetts

ABSTRACT: As speech recognition continues to improve, new applications of the technology have been enabled. It is now common to search for information and send accurate short messages by speaking into a cellphone - something completely impractical just a few years ago. Another application that has recently been gaining attention is "Spoken Term Detection" - using speech recognition technology to locate key words or phrases of interest in running speech of variable quality. Spoken Term Detection can be used to issue real time alerts, rapidly identify multimedia clips of interesting content, and, when combined with search technology, even provide real-time commentary during broadcasts and meetings. This talk will describe the basics of Spoken Term Detection systems, including recent advances in core speech recognition technology, performance metrics, how out-of-vocabulary queries are handled, and ways of using score normalization and system combination to dramatically improve system performance.

SPEAKER:
MICHAEL PICHENY
IBM TJ WATSON RESEARCH CENTER
HOSTS:
JIM GLASS and **VICTOR ZUE**
MIT CSAIL

CSAIL

For additional information go to:
https://calendar.csail.mit.edu/events/125977

Massachusetts Institute of Technology

Fun FUNFUNFUNF

Sudoku I

Solution, page 11

7			1			5		
			4	7				1
3		8		9			7	
	5			1	9			4
	9						5	
4			6	5			3	
	7			4		2		5
1				6	7			
		4			1			8

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Sudoku II

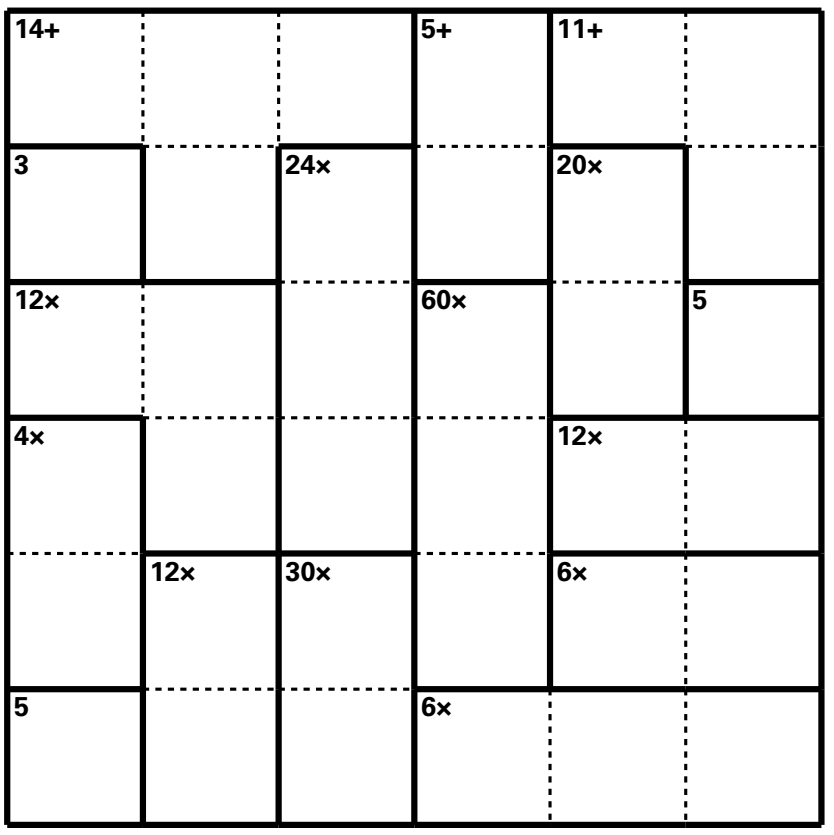
Solution, page 11

4		1		5				3
		2	4				9	
	5				6	4		
					7	9	8	
8		4				7		6
	6	7	9					
		6	1				5	
	1				8	3		
3				9		6		7

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku I

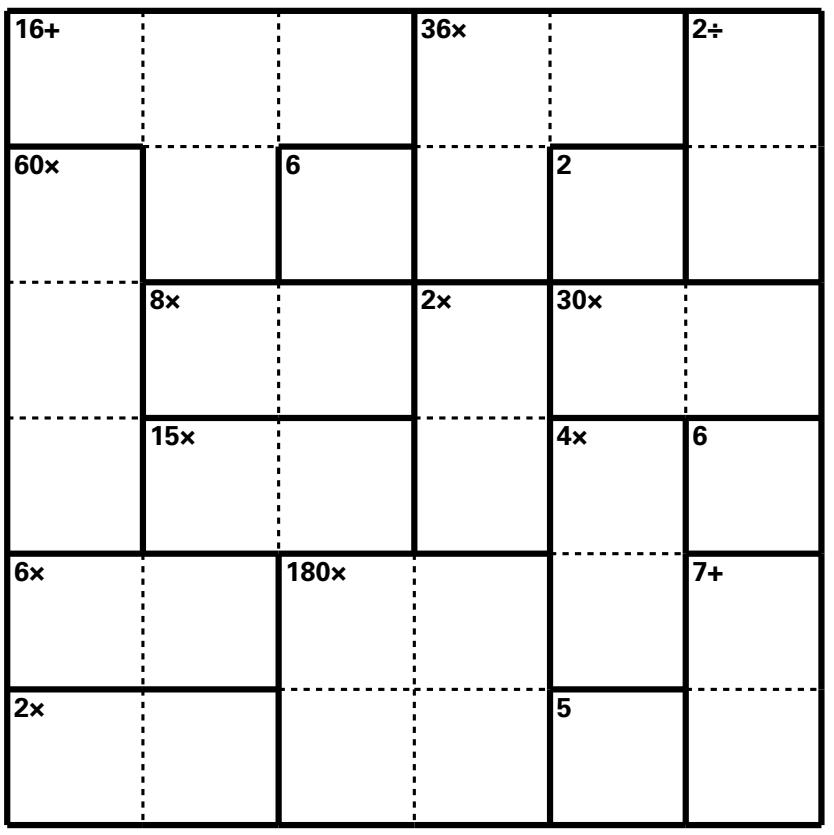
Solution, page 10



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Techdoku II

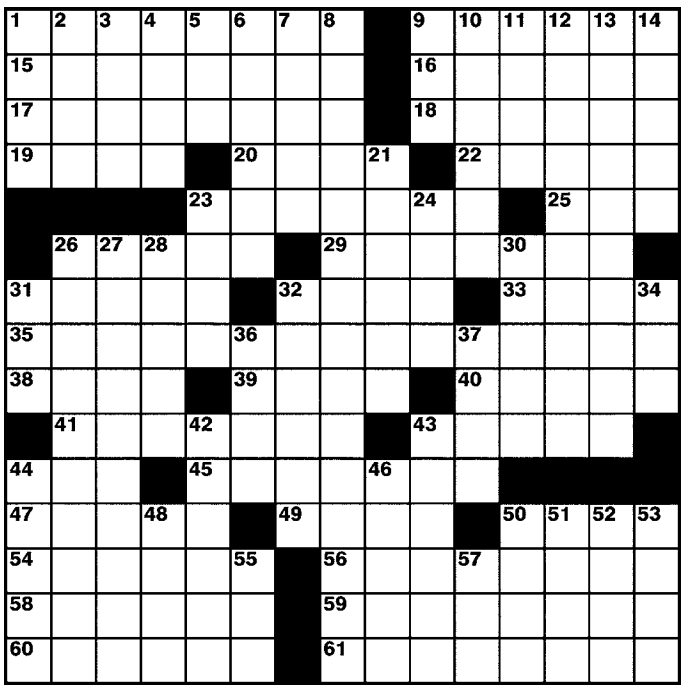
Solution, page 10



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Saturday Stumper by Lars G. Doubleday

Solution, page 10



ACROSS

1 Big name in rings, a while back
9 Big do
15 Powdered Halloween handout
16 River that named a world capital
17 It hasn't been organized
18 Indic language
19 Withhold
20 Chain component
22 Kildare portrayer once married to Ginger Rogers
23 Straightens, in a way
25 Contents of some shells
26 Vet's prescription, perhaps
29 Carnival strains
31 Fox's onetime Survivor competitor
32 Shooter's equipment
33 Get around
35 Sight from the end of the Oregon Trail
38 Billet-doux addressee
39 They increase by degrees
40 AP Entertainer of the Year for 2012
41 City northeast of Milan
43 Horse __
44 First TV series in Dolby Surround sound (1986)
45 Noted
47 Master
49 TV grid rows
50 Yoplait brand for kids
54 Frozen, maybe
56 Flush
58 Highly unlikely to flinch
59 In the past only
60 Least square
61 Rafter connectors

DOWN

1 Listening device
2 Opportune
3 Field workers
4 TR's birthplace
5 Ltrs. to the editor
6 View introducer
7 Trade-show setup
8 Record label since the '90s
9 Circulation aid
10 "Whatever"
11 Pick out
12 Backtracks, say
13 It may involve a triángulo amoroso
14 Green room VIPs
21 Formally approves
23 Relative in DuckTales
24 Focus of a Bern museum
26 Essentially none
27 Reinforcements
28 Many a browser
30 Tyrant's father, per Sophocles
31 Erstwhile Ambassadors Club operator
32 Collagen container
34 Long introduction
36 Shortened address
37 Engaged and then some
42 They may be rubbed out
43 Lower, for now
44 Two of the 12 moonwalkers
46 Troubadour coda
48 Vietnam War trilogy playwright
50 Make the right pitch
51 Woodstock instrumental
52 Particular
53 Millennials' preceders
55 Environmental Defense Fund's initial target
57 Possible charcoal source

FUNFUNFUNF

IBM

Information Session: Monday, March 3, 5:30pm–7pm in 1-135.

IBM has exciting intern and full time opportunities for Course 6 majors pursuing bachelors, masters and PhDs. To learn more, join IBMers from these two areas of our business.

IBM Research - intern opportunities (with consideration for full time in 2015 in IBM Africa) for students pursuing masters or PhD in computer science and engineering

IBM Watson - full time and intern opportunities for students pursuing bachelors, masters or phd in natural language processing or machine learning

Refreshments will be served.

رواج

Pakistanis@MIT

Rawaj: A Pakistani Cultural Night

Saturday, March 8th at 6:00pm

Where: 142 Memorial Drive, Walker Memorial

Tickets: Lobby 10, March 3rd- March 6th OR Online (Check our Facebook page for details)

LEF/ Arcade

Contact us at : paksmit-exec@mit.edu

This space donated by *The Tech*

Situation disrupts Russian economy

Upsets Putin

Ukraine, from Page 1

sistance and bloodshed, will almost certainly rattle investors and plunge Russia's unsteady economy into free fall. With the value of the ruble already falling, there was quick speculation of a rocky start when the stock market opens Monday.

For now, such calculations appear to be secondary to the fury that the toppling of Yanukovych's government has caused inside the Kremlin. Ukraine has deep historical, social and religious connections to Russia that are often underestimated in the United States, especially. More significantly, Putin and the close circle of aides he relies on most, view the overthrow of Yanukovych as a coup orchestrated by the West to undercut Russia's vital interests.

Sergei Utkin, the head of the Department of Strategic Assessment, part of the Russian Academy of Sciences, said that the relentless anti-Americanism on state media was in the past dismissed as crude propaganda that served a transparent political purpose but appeared now to reflect the actual worldview of the Kremlin. "It's a catastrophe for Ukraine and for Russia," he said. "The problem is that quite a few people in Russia don't understand the consequences. They believe the country is strong and can do whatever it wants to do."

How Putin perceives these events remains central to what happens next, experts said. Does he believe he has already succeeded by making clear that Russia has the will and the means to force its agenda in Ukraine? Or does he feel the job is only half done and that having stoked Russian nationalism, he has no choice but to plow ahead?

Solution to Crossword

from page 9

I	R	O	N	M	I	K	E	■	F	I	E	S	T	A
P	I	X	Y	S	T	I	X	■	A	M	S	T	E	L
O	P	E	N	S	H	O	P	■	N	E	P	A	L	I
D	E	N	Y	■	I	S	L	E	■	A	Y	R	E	S
■	■	■	U	N	K	I	N	K	S	■	T	N	T	■
■	T	R	A	N	K	■	C	A	L	Y	P	S	O	■
T	H	E	O	C	■	D	I	C	E	■	R	O	V	E
W	I	L	L	A	M	E	T	T	E	R	I	V	E	R
A	M	I	E	■	A	R	C	S	■	A	D	E	L	E
■	B	E	R	G	A	M	O	■	O	P	E	R	A	■
A	L	F	■	E	M	I	N	E	N	T	■	■	■	■
L	E	A	R	N	■	S	T	N	S	■	T	R	I	X
A	F	R	A	I	D	■	E	V	A	C	U	A	T	E
N	U	M	B	E	D	■	N	O	L	O	N	G	E	R
S	L	Y	E	S	T	■	T	I	E	B	E	A	M	S

Solution to Techdoku I

from page 9

6	5	1	4	2	3
3	2	4	1	5	6
2	1	3	6	4	5
1	6	2	5	3	4
4	3	5	2	6	1
5	4	6	3	1	2

Solution to Techdoku II

from page 9

6	5	1	4	3	2
5	4	6	3	2	1
3	2	4	1	6	5
4	3	5	2	1	6
1	6	2	5	4	3
2	1	3	6	5	4

John Reed talks for Faculty Newsletter

Interview with Corporation Chair

FNL, from Page 1

tures an interview with MIT Corporation Chairman John Reed '61, which touches on MITx, international partnerships, and commercial development in East Campus. The conversation opens with discussion of the future of MITx and potential monetization schemes. For example, MIT could develop courses for a company and charge for the service. Reed stressed however, that while MIT should look for revenue streams where they exist, the main goal of MITx is education, not making a profit.

"There are all sorts of opportunities, and we understand that. And undoubtedly, over the next five or 10 years, we'll experiment with different models... We're in the business of educating people, not making profits."

On the topic of international partnerships, Reed said that there are currently no new initiatives being proposed, though such initiatives would be driven by the administration, not the Corporation. As for MIT and Russia's existing Skolkovo Foundation partnership, a three year collaboration to develop a graduate research university in Skolkovo, Russia, Reed said, "It involves industrial companies as well as academic institutions. It's sort of an enclave. And I think it's struggling a little bit, but that's not surprising. I think the first 10 or 15 years of MIT were not smooth and easy, either."

The interview continues with Reed's thoughts about the commercial development plans for MIT's properties in East Campus. According to Reed, while some of the land slated for commercial development is close to the academic campus, the Institute clearly delineates between property that can be developed for academic use, and property for commercial use. For example, Reed says that Kendall square was "never seen as a place for academic expansion," though the Sloan School was built nearby because that land was for academic use.

"What's happened here, is we now have MITIMCo developing things that actually touch the campus. And the faculty responded by saying, whoa, what's going on here? There are a number of faculty who live in Cambridge, and hence participate in the discussion at the Cambridge level. But it's been quite open... No one has ever asked the Corporation to make a decision as to what should or shouldn't be academic — we're not in any position to do that."

Solution to Sudoku I

from page 9

7	4	9	1	3	6	5	8	2
5	6	2	4	7	8	3	9	1
3	1	8	2	9	5	4	7	6
6	5	3	7	1	9	8	2	4
2	9	1	3	8	4	6	5	7
4	8	7	6	5	2	1	3	9
8	7	6	9	4	3	2	1	5
1	2	5	8	6	7	9	4	3
9	3	4	5	2	1	7	6	8

Solution to Sudoku II

from page 9

4	8	1	7	5	9	2	6	3
6	7	2	4	3	1	5	9	8
9	5	3	8	2	6	4	7	1
1	3	5	2	6	7	9	8	4
8	9	4	3	1	5	7	2	6
2	6	7	9	8	4	1	3	5
7	2	6	1	4	3	8	5	9
5	1	9	6	7	8	3	4	2
3	4	8	5	9	2	6	1	7

Legatum Lecture

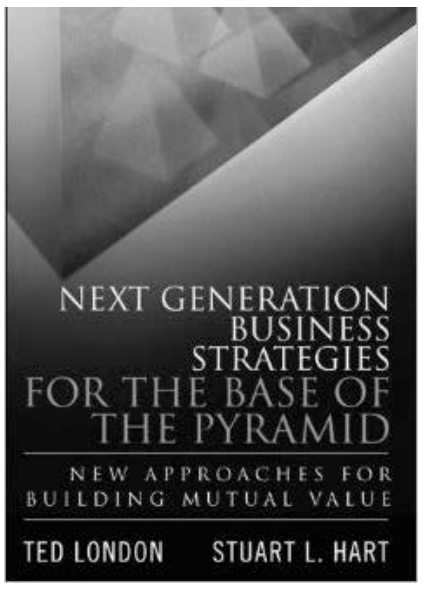
LEGATUM CENTER FOR DEVELOPMENT & ENTREPRENEURSHIP
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

NEXT GENERATION STRATEGIES FOR THE BASE OF THE PYRAMID

SPEAKER:

Stuart Lloyd Hart

President,
Enterprise for a Sustainable World


NEXT GENERATION BUSINESS STRATEGIES FOR THE BASE OF THE PYRAMID
NEW APPROACHES FOR BUILDING MUTUAL VALUE
TED LONDON
STUART L. HART

Tuesday, March 11
5:30 pm

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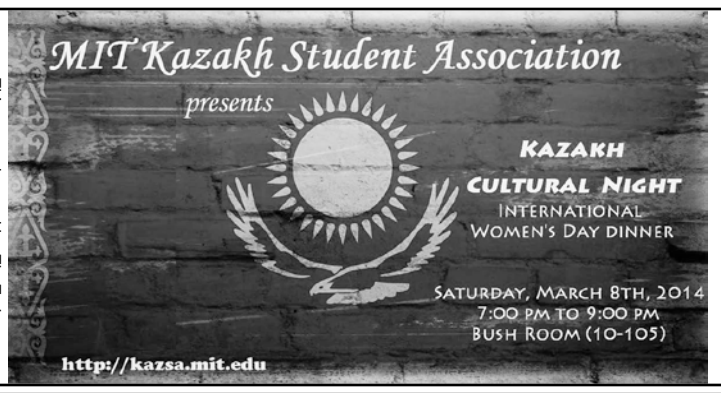

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